Manufacturing Process Instructions

Intuitive-00705141

SURGICAL

PROCESS I.D.	OPERATION #	
CABLE	D. T.	
TENSIONING	DUAL JAW 13	

TQC

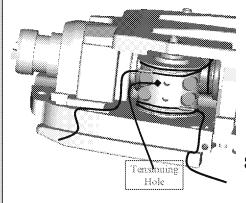
WORK CONTENT

VERIFY

FIND	PART#	DESCRIPTION	QTY
EFT	833325	Input Nest	-
	833800		
EFT	See BOM	Wrist Nest	
EFT	833916	Tensioning Tool,	-
		Beam Style	
EFT	833054	40 in/oz Torque	-
		Driver	
ENGINE	ER	DATE	
1 5 T T 11			
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	030012		
		PAGE	2
		1 OF	2

GENERAL CABLE TENSIONING METHOD

- Install the unit on an input nest with the appropriate wrist nest.
- Verify that each wrist cable is on the correct idler and clamping pulley.
- Verify that each crimp is seated in the clamping pulley counterbore.
- **4.** \triangle Verify that each roll cable is in the clamping and roll pulley grooves.
- 5. \triangle Verify that roll axis is locked at zero and that each roll crimp is seated in the counterbores.
- Insert the cable tensioning tool into the tensioning hole on a Clamping Pulley. While holding the tensioning tool in one hand, loosen both Screws on the Pulley until the Pulley turns freely on the Input Shaft.



- Move the tensioning tool towards the crimp until the correct tension is reached (indicated by the marks on the tensioning tool). While holding the correct tension, tighten one screw, then the other.
- Repeat tensioning process on all clamping pulleys. Tension each cable to the marks specified on page 2.
- **9.** Visually verify that each set of upper and lower Clamping Pulleys contact each other--there should be no gap between them.

TRIAL EXHIBIT 622

Case No. _3:21-cv-03496-AMO Date Entered

Deputy Clerk

Trial Ex. No. 622, Pg. 1 of 2

INTUITIVE

SURGICAL

PROCESS I.D.
CABLE
TENSIONING

OPERATION #

DUAL JAW 13

WORK CONTENT

VERIFY

FIND	PART#	DESCRIPTION	QTY
A	330072	Washer, .095 I.D. X .125 O.D., .010 T.	6
EFT	833025	Input Shaft Swager	-
EFT	833370	EFT, INPUT SHAFT SWAGE TOOL	-
		_	

ENGINEER DATE

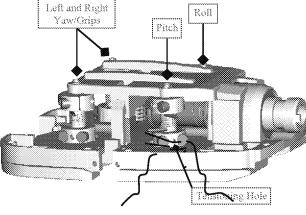
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PAGE

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C

10. Tension Roll axis to the second (outer) marks on every instrument type.



11a. Scissors and Clip Applier Only

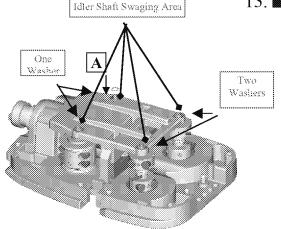
Manufacturing Process Instructions

Tension Pitch and Yaw/Grip to the first (inner) marks on the Tensioning Tool

11b. Graspers (Forceps, Needle Drivers) Only

Tension **Pitch** and **Yaw/Grip** to the **second** (outer) **marks** on the Tensioning Tool.

12. Clip excess cable flush with the back of each Crimp.



13. Insert two Washers onto the Yaw/Grip Input Shafts and one Washer onto the pitch and roll Input Shafts. Perform swage operation on each Input Shaft.

Verify visually that the tops of all of the Input Shafts have been mushroomed over.